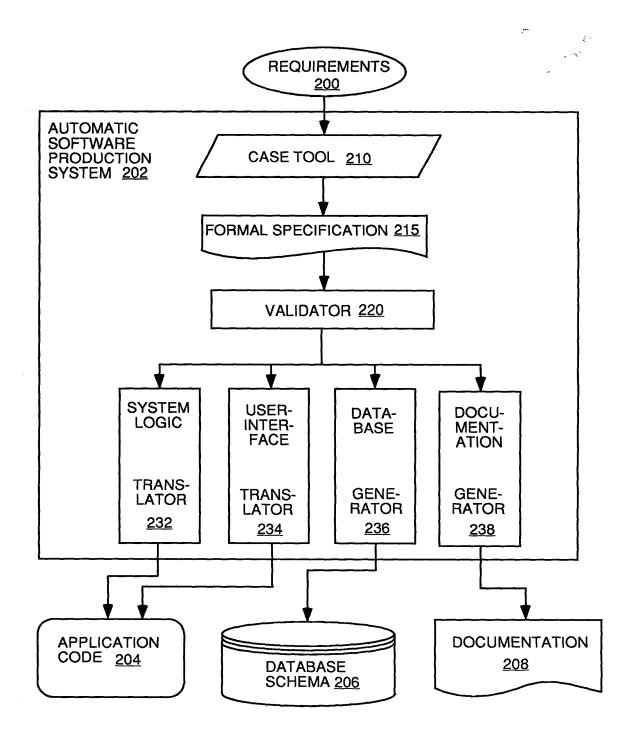
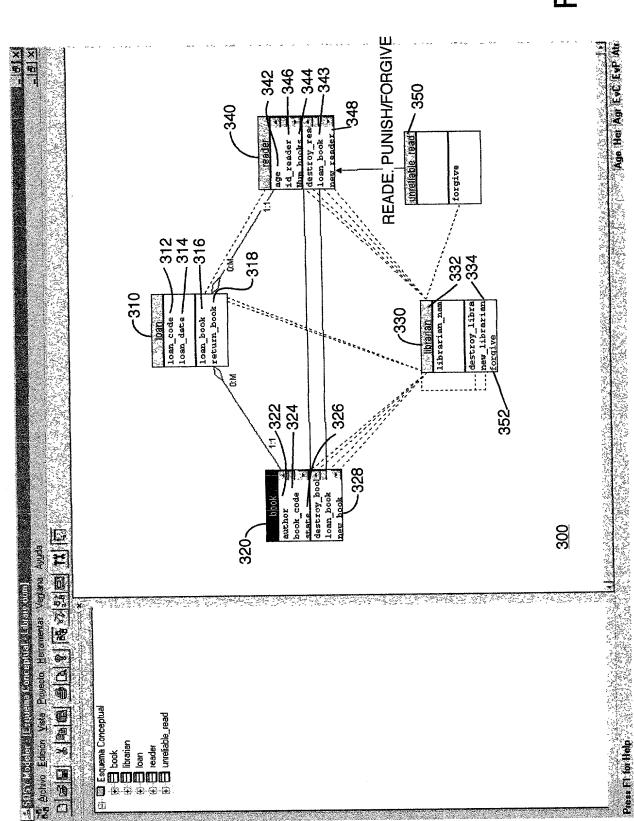


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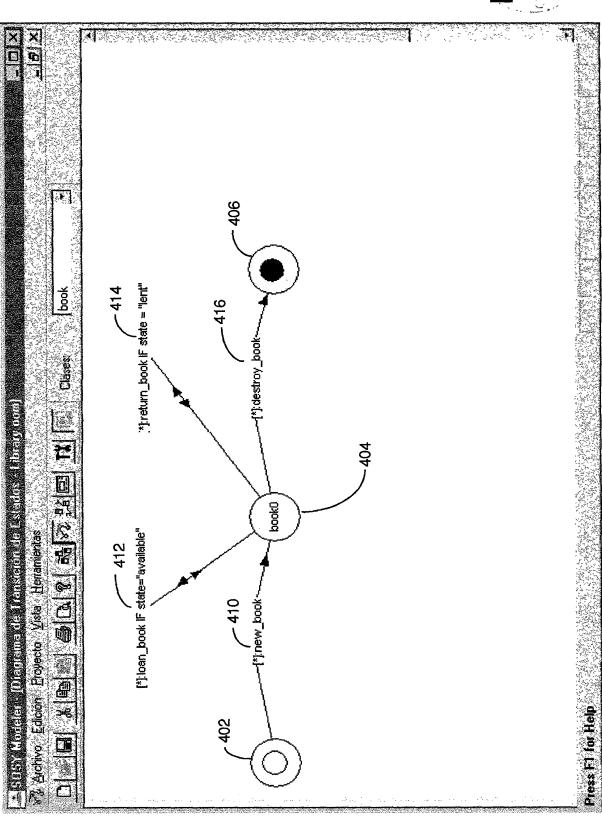
FIG. 2



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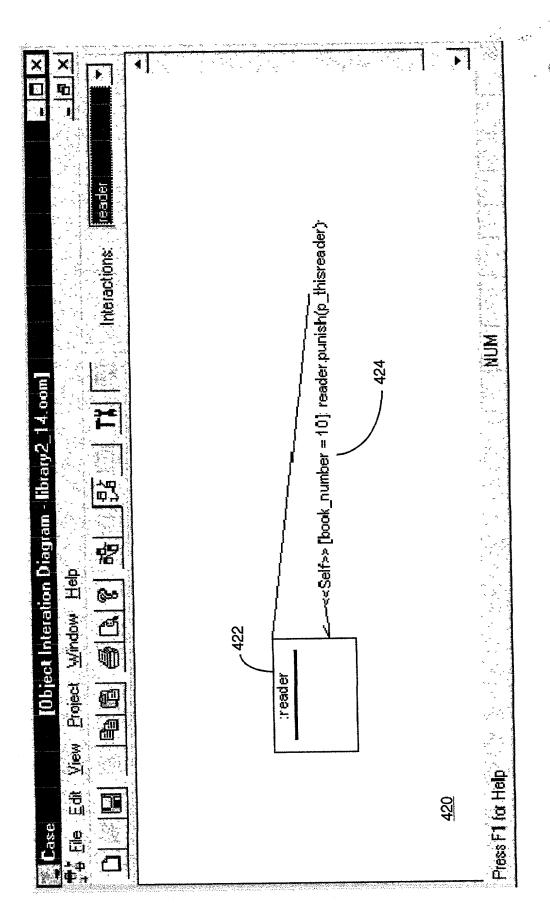
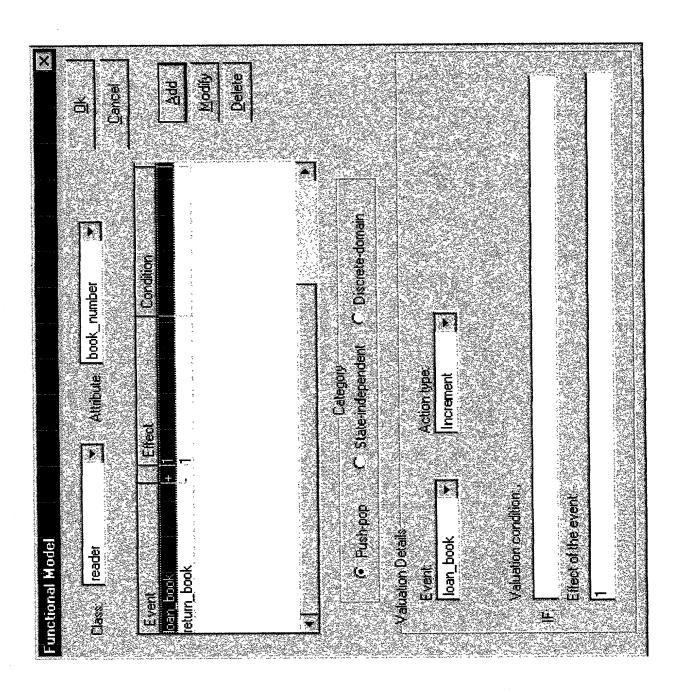


FIG. 4B



AUTOMATIC SOFTWARE PRODUCTION SYSTEM INVENTOR: IBORRA AND PASTOR SERIAL NO. 09/872,333

SERIAL NO. 09/872,333 FILING DATE: 06/01/01 DOCKET NO. CHG-001.3P

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FLOWCHART OF THE FUNCTIONS THAT ALL SPECIES OF SYSTEM LOGIC TRANSLATORS WILL PREFORM

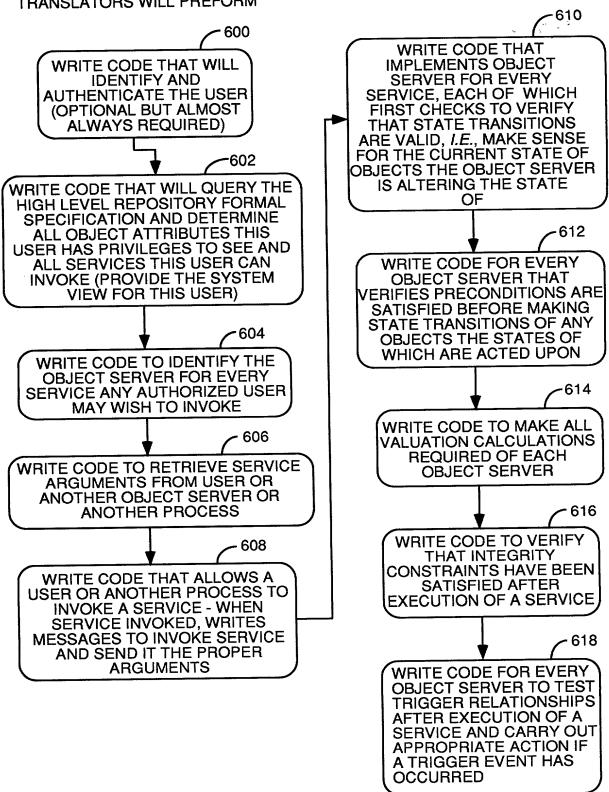


FIG. 6

AUTOMATIC SOFTWARE PRODUCTION SYSTEM

INVENTOR: IBORRA AND PASTOR SERIAL NO. 09/872,333 FILING DATE: 06/01/01 DOCKET NO. CHG-001.3P

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## FLOWCHART OF THE FUNCTIONS THAT ALL SPECIES IN THE USER INTERFACE TRANSLATOR SUBGENUS WILL PREFORM

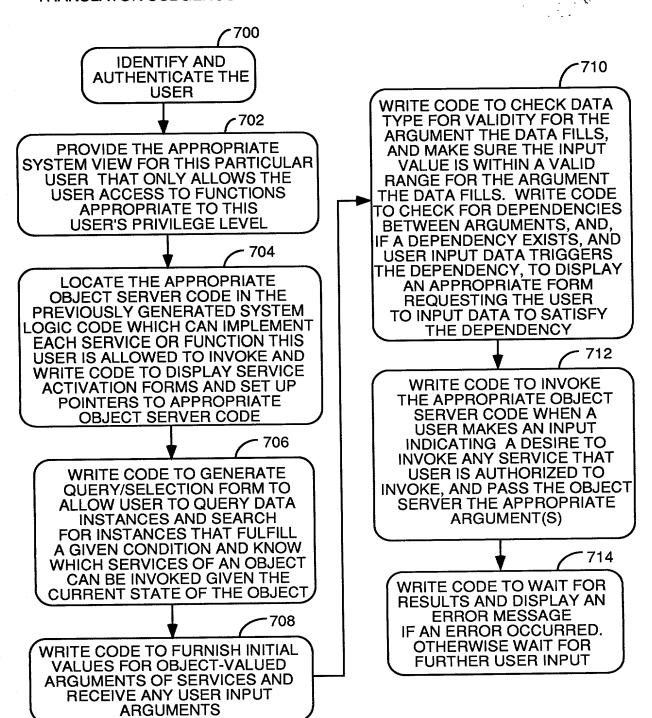
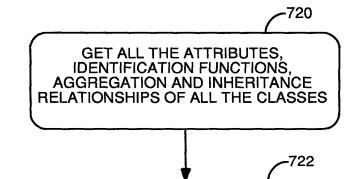


FIG. 7

AUTOMATIC SOFTWARE PRODUCTION SYSTEM INVENTOR: IBORRA AND PASTOR SERIAL NO. 09/872,333

SERIAL NO. 09/872,333 FILING DATE: 06/01/01 DOCKET NO. CHG-001.3P

## FLOWCHART OF THE FUNCTIONS THAT ALL SPECIES IN THE DATABASE GENERATOR TRANSLATOR SUBGENUS WILL PERFORM



STORE THE VALUES OF ALL THE GATHERED INFORMATION OF ALL THE CLASSES AT ANY POINT IN TIME IN ANY DATA STRUCTURE FORMAT, INCLUDING A RELATIONAL DATABASE, SUCH THAT THE VALUES OF ALL THE GATHERED INFORMATION CAN BE SUBSEQUENTLY READ AND WRITTEN BY AT LEAST THE SYSTEM LOGIC

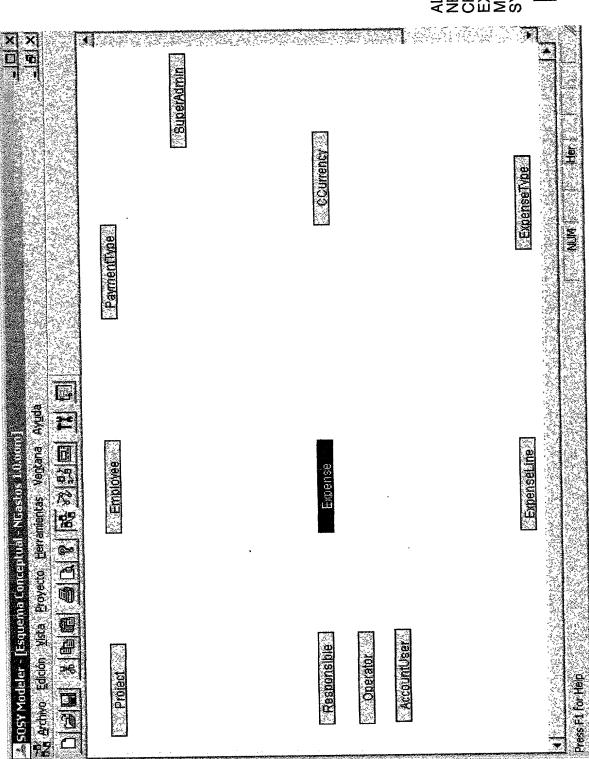
FIG. 8

CLASS CREATION DIALOG

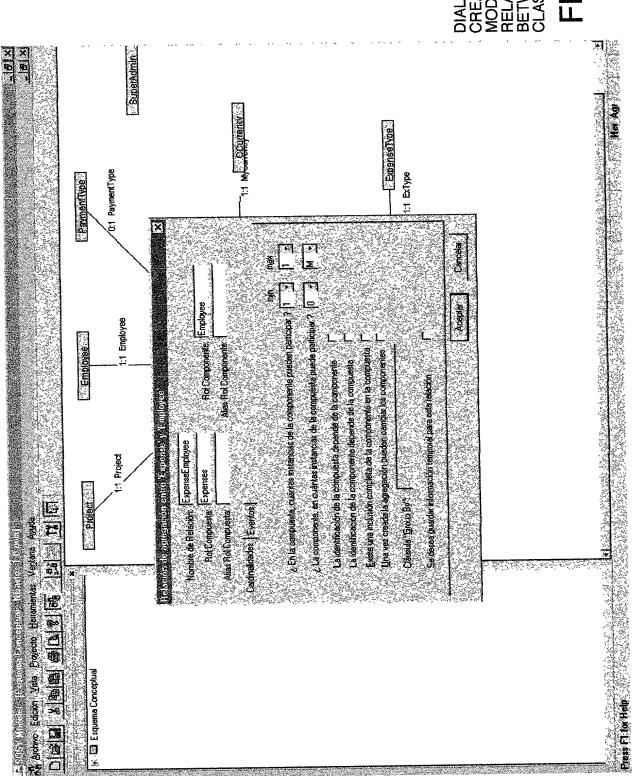
XIST XIST Persons working for the company or who in the system may ssue an Expense Report. A. Borino Educio Vara Boyecto Haramerkes Ventana Aude 

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ALL CLASSES
NEEDED AND
CREATED IN
EXPENSE
MANAGEMENT
SYSTEM
FIG. 9B



> DIALOG TO CREATE AND MODIFY RELATIONSHIPS BETWEEN CLASSES



GRAPHIC DIALOG
TO CREATE
RELATIONSHIPS
BETWEEN
CLASSES AND
GRAPHICALLY
SHOW THE
RELATIONSHIPS
SO CREATED

FIG. 10 X B X D SuperAdmin COurrence 2 ExpenseType 2 PaymentType Expense Currency 1:1 Line Type Expenses TPay **电雷 多山《 陈初战回 11** 50 ExpenseEmployee \* 505Y Modeler - [Esquema Conceptual - Noastos 110 ourl) - Archko Edicion Yista Proyecto Herramientas Ventana Avyda ExpenseLines È ExpenseLine <u>0</u> ₩.0 Employee OMO ExpensesProject Responsible Accountiser Operator 5-8 

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FIG. 11/

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Airbutos	PresentDate	Status	Cause	AuthoDate	Burnomfileres	PayComments	TotExpenses	TotExpensesCur	Advances	AdvancesCur	Exchange	BalanceCur		Mombre		dia.	Theservacion		 <del>source of the</del>		A	erase

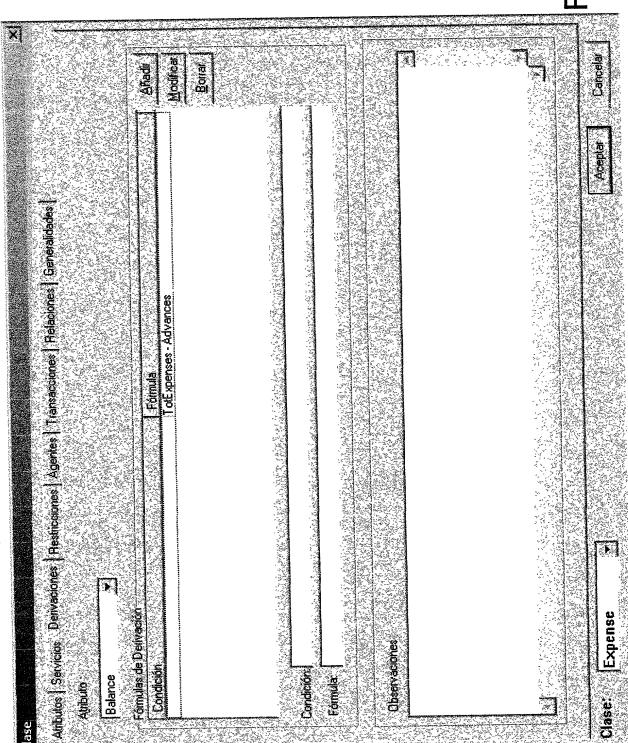
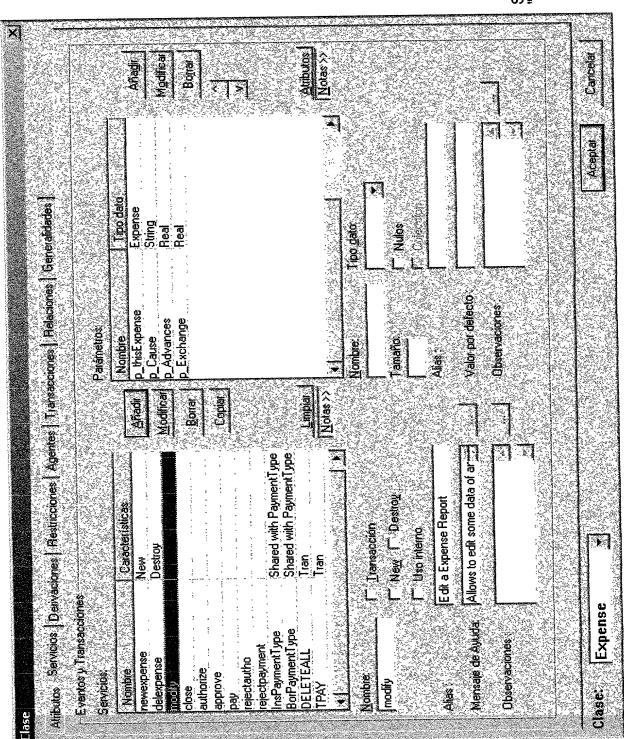


FIG. 12

SERVICES OF CLASS "EXPENSE"



FABRUAR DAGGO

DIALOG TO DEFINE FORMULA FOR "DELETEALL"
TRANSACTION

FIG. 13

Carcala Uppose L Aceptai Cear Parametro en la Transacción Aubutos | Servicios | Derivaciones | Restrictiones | Agentes - Transacciones | Refactiones | Generalidades | p\_thisExpense FOR ALL Lines DO Lines deleteline( Lines ) . delexpense( THIS approve 🔆 DELETEALL Expense Observaciones Transacción Clase/Rot Expense Formula Clase:

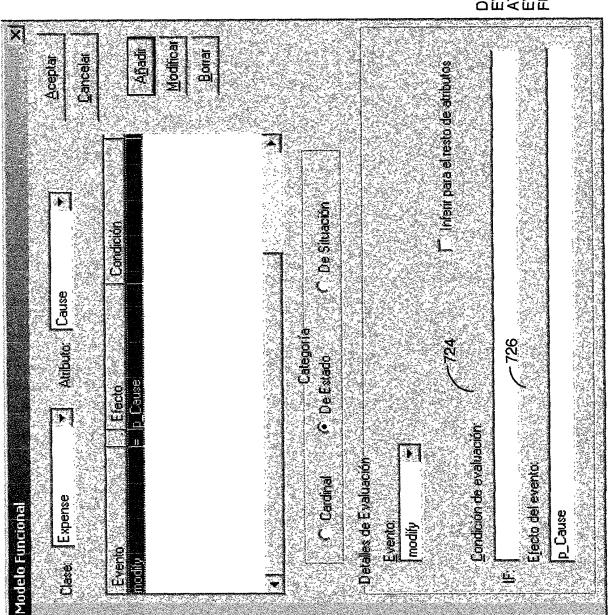
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AUTOMATIC SOFTWARE PRODUCTION SYSTEM INVENTOR: IBORRA AND PASTOR SERIAL NO. 09/872,333 FILING DATE: 06/01/01 DOCKET NO. CHG-001.3P

> INTEGRITY CONSTRAINTS OF EXPENSE CLASS

FIG. 14

DIALOG BOX TO CREATE
EVALUATION OF "CAUSE"
ATTRIBUTE WITH THE "MODIFY"
EVENT TO FORM PART OF
FUNCTIONAL MODEL



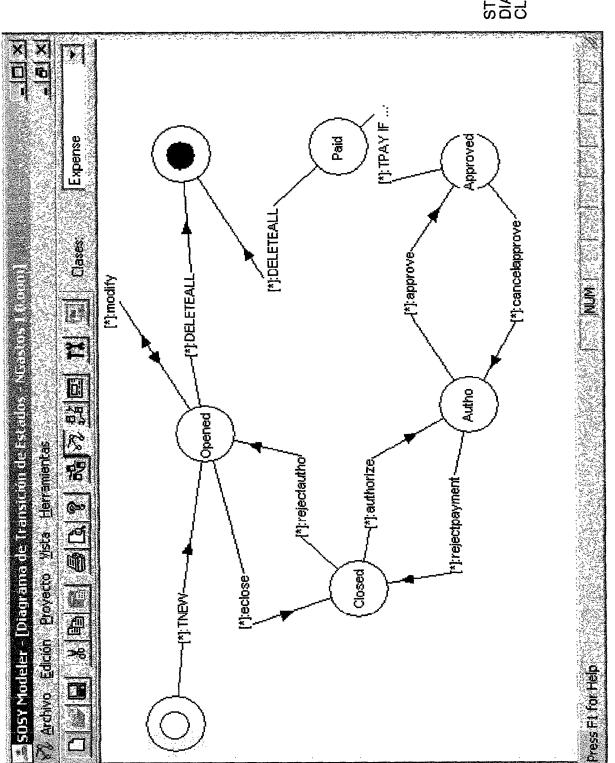
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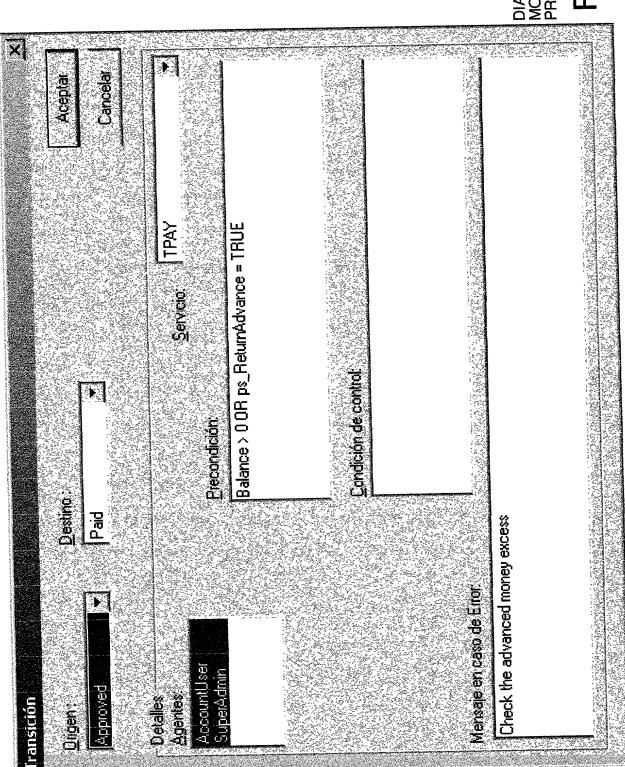
AGENT RELATIONSHIP DIALOG THAT CAN BE USED TO SET WHICH SERVICES "ACCOUNT USE" CAN ACCESS AND VISIBILITY OF CLASS ATTRIBUTES FOR THIS USER

Restrictiones Agentes	- (rânsacciones   Helacibnes   Leniëralidades  - Clase Accountiluser agente de	Servista Expense approve Expense rejectpayment No Expense TPAY No	Hacer temporal   No hacer temporal   Clase AccountUser teme visibilidad sobre.  Ambulos   Ambulos   Expense   Expense id Expense   Expense   Expense Status   Expense Status   Expense PaymentDate   Expense PaymentDate   Expense PaymentDate   Expense AuthoDate   Expense TotExpenses Cur   Expense TotExpenses Cur   Expense Advances	
		Long 1	Forda > 1	

STATE TRANSITION DIAGRAM FOR CLASS "EXPENSE"



DIALOG BOX TO MODEL PRECONDITION FIG. 18



DIALOG BOX USED BY SOSY MODELER TO ESTABLISH A SET OF ATTRIBUTES TO BE DISPLAYED FOR THE "EXPENSE" CLASS

		TAPASO Garcelor
	Tinn data	String Date String Real Real Real Real Real
Borrar	Atributos	ents SesCur Cur
Limpiar		Eliminar >> <u>Subir</u> Agega
ración nse 🔼		String String Int Date Peal Real
onjunto de Visualización Nombre:   CV_Expense	Atributos a visualizar.	Atributo Project ProjectName String Employee EmpSur String Status Int AuthoDate Date PaymentDate Date TotExpenses Real Ealance Real

DIALOG BOX USED BY SOSY MODELER TO ESTABLISH THE SEARCHING CRITERIA FOR THE EXPENSE CLASS AND TO ESTABLISH THE FILTER FORMULA TO USE AND THE VARIABLES TO REQUEST THE USER TO ENTER

X Cancelar Modificar Nueva Borrar Accepta Borrar Estilo de selección PresentDate >= vf\_DateInilssue AND PresentDate <= vf\_DateEndIssue AND |AuthoDate>= vf\_DateIniApp AND AuthoDate<= vf\_DateEnd4pp AND |PaymentDate>= vf\_DateIniPay AND PaymentDate<= vf\_DateEndPay AND Estilo de introd Limber Sel. Población Sel. Población Tipo estilo **Expense Reports** Project = vf\_Project AND Employee = vf\_Employee AND The date Employee Project Oate Oate Date Oate Alias Tipo de dato: Initial Issuing Date inal Issuing Date nitial Approving D. Nombre Employee Project C Objeto-valuado fit Expense DateEndissue DateInilssue Clase, Expense DateIniApp e Smple Employee を表える Project Nombre

FIG. 20

## FLOWCHART OF THE FUNCTIONS THAT ALL SPECIES IN THE DOCUMENTATION GENERATOR TRANSLATOR SUBGENUS WILL PERFORM

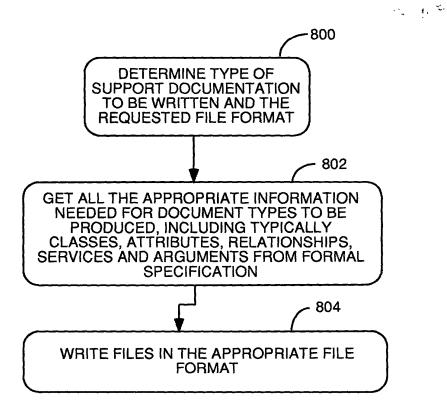


FIG. 21